FIRST & Final

Orginal/Duplicate/Triplicate

AEE/TDSD/SBR/91/17-18 dt 31/8/17

CONTRACT CERTIFICATE

(For other works)

No.....

Date:.....

Division: Dasarahalli Division

Sub-Division:

Bill Received No.....Dated.....Cash Book Vocher No.....Dated.....

Scheduled Docket No.....

Head of Account.....1802

Name of work (as Per Sanctioned Estimate.):**Providing & Sinking of Borewells, Motor pumps & Supply Drinking water Facility through to Tanker at T.Dasarahalli Ward No 15**

Name of Contractor and Full Address: **:-Technical Manager (west) Karnataka Rurral Infrastructure Development Limted, Project Implementation Unit, Madhavanagara bangalore 560 001.**

Reference to Agreement No: **BBMP/EE/DD/WO/006/2017-18**

Certified that the measurements were taken by me on .....31/8/2017.....and recorded in pages..1711871to 1711981.

Measurements Book No..17/12/12-13. and that the work is satisfaction executed

Contractor Signature

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Officer-in-charge of work.

Certified that the measurements were taken by me on 31/8/17 and found correct. The work is satisfactorily executed

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sudarsan 31/8/17

f Memorandum of Payment **Work Code No. 015-17-000030** Sub – Division Officer

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ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

		Amount
1		
	Total Value of work done or supplies made as per account.	
2		
	Deduct amount to be held in reserve being ..... Percent Rs.	
3		
	Deduct amount to be held in reserve being balance	
4	Deduct payments:	
	a) Amount of previous payment as in the office Cash Book Vocher No..... Dated..... S.D. No.....	
	Amount adjusted towards cash advance recovery of	
	b) Payments cost store or other materials supplied.	
5		
	Balance being unpaid value of work done held in reserve Total.....	
6	Deduct cash advance made on the office cash book vehicle No.....	
	Dated..... Less adjustments	
7	Net amount due to or from contractor	
	Unadjusted items	
8	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied.	
	Government materials supplied.	

31/8/17

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

eceived Rs.....(in wards).....Contractor Signature.

.....

y cash and by adjustment of payment as per memorandam.

itnesses:

(for use in the office)

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

ate:.....

id by me by cheque..... Dated.....

sh Rs..... Dated.....

tials of Officer making payment dated.....

Signature of Contractor.

Executive Engineer.

Sl. No.	Description of Items
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the Habitation eithe through the hand pump, MWS O PWSS by vertical electrical sounding by adopting veneer or Schlumbergers's method, including reconnaissance survey of Geological formation, Geophysical investigation of existing ground water in the vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidate formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and othe information required including transportation of instrument and accessories to work site, engaging technica personal and labour required etc.
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 90 CMF & above in all strata including over burdern upto 22 M. fixing of casing pipes, collars and cap wit necessary cutting, threading and welding including transportation of rig and supporting vehicle, crev charges and cost of consumables etc., complete including yield testing at the final depth with a minim working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,)
a	Upto 50.00m depth
b	50.00 to 100.00m depth
c	100.00 to 150.00m depth
d	150m to 200m depth
e	200m up to 250m depth
f	250m to 300m depth
g	300m up to 325m depth
3	Supplying of ISI Mark 175mm Nominal bore plain end steel casing pipe-grade of steel Fe 410, of wa thickness 5.4mm thick confirming to IS 4270:2001 and latest emendments electric resistance welded stea tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basi oxyzen process in random length of 4 to 7 Mts, Both ends threaded confirming to IS 554/1985, one en fixed with a socket confirming to IS 4270:2001 and the other end with screwed pipes. all pipes shall b reasonably straight should be with ISI making, welding, weighing 25.10 kg/mtr (icnlusive of all taxes an duties) Prices include collar medium duty
4	Additional rate on item No. 2 is allowed for drilling inover burden and folling casing pipes beyond 20mtr rate at 15% and beyod 30 mtrs 30% on basic rate of Rs. 306 is allowd
5	Providing 175mm dia MS cap
6	Providing 175mm dia MS cap
7	Supply and delivery at site brand new Texmo / Innoval / Lubi / Sabar / Atalanta / Calamal / waterman Radha make suitable vertical installation in 150mm dia. Borewells comprising of single stage or miultistag CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclose and filled with pure drinking water (Wet type) squirrel cage **submersible induction mortor** suitable fc operation of 3Ph., 50Hz. 380/44 volts AC supply fitted with required accessories such as suction. casing suction strainers, sand guard Non return valve etc., complete the pump and motor shall form an integra unit with all the required fittings **15HP 30 stage Kirloskar, Atlanta, Suguna, CRI & other equipmer pump** (PWD SR 15-16 Page No xxxxi, Iteam. No 33
8	Supplying and Drawing 3 core Flat PVC Shalted **Submersible Pump Cable** Manufactured with Electrolyt Grade Copper with Flexible copper conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC insulatio and Sheeated Suitable for working Voltage Upto 1100 Volts BWSSB SR 2012-13, P- 535, I. 30
9	Supplying and fixing 50mm **Non Return Vavle** of vertical type of approved make including cost of a materials labour HOM of equipment with all leads Complete as per Specifcation PWD SR 2015-16, P.N XXIII, Sl No.659 Code No.0126
10	Supplying and fixing 50mm **GM Gate Vavle** PWD SR 15-16, Sl No.673, P.No- XXIII Code No.0164)
11	Supplying and fixing 175mm Borewell cap with clampset As per approved Rate per SERED Letter N 2081/2010-11, Dt.28.7.2010,
12	Supplying and fixing 50mm **GI Union** PWD SR 2015-16,
13	Supplying and fixing 50mm **GI Elbow** PWD SR 2015-16,

Unit	Previous Measurement			Present Measurement			Total Up-to-date	
	Qty.	Rate	Cost	Qty.	Rate	Cost	Qty.	Cost
Each	—	—	—	5.0	1882.00	9410=00	5	9410=00
RMtr								
Rmtr	—	—	—	250.0	306.00	76500.0	250.0	76500.0
Rmtr	—	—	—	250.0	400.00	100000.0	250.0	100000.0
Rmtr	—	—	—	250.0	445.00	111250.0	250.0	111250.0
Rmtr	—	—	—	250.0	470.00	117500.0	250.0	117500.0
Rmtr	—	—	—	250.0	544.00	136000.0	250.0	136000.0
Rmtr	—	—	—	250.0	583.00	145750.0	250.0	145750.0
Rmtr	—	—	—	125	622.00	77750.0	125	77750.0
RMtr	—	—	—	200.0	1325.00	265000.0	200.0	265000.00
Mtr	—	—	—	50.0	45.90	2295.0	50.0	2295.00
Each	—	—	—	50.0	150.00	7500.00	50.0	7500.00
Each	—	—	—	5.0	100.00	500.00	50.0	500.00
Nos	—	—	—	5.0	70600.00	353000.0	5.0	353000=00
Mtr	—	—	—	3800.0	159.50	606100.0	3800.0	606100=00
Nos	—	—	—	5.0	1145.00	5725=00	5.0	5725=00
Nos	—	—	—	5.0	1600.00	8000=00	5.0	8000=00
Nos	—	—	—	5.0	500.00	2500=00	5.0	2500=00
Nos	—	—	—	5.0	223.00	1119=00	5.0	1119=00
—	—	—	—	15.0	111.80	1677=00	15.0	1677=00

14	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type 10hp to 15 hp PRED ISSUE RATE
15	Providing and fixing of 50mm **G.I pipe 'C' class** heavy duty for erection of submersible pumpset galvanised tube 50mm supply ad delivary of cause heavy duty as per IS/239/1990 (PRED SR P No.56, I.No 10.1)
16	Supplying and fixing 50mm **GI coller** Heavy duty PRED SR 2012-13 P-III S-86
17	Erection of combined **panel board** and meter unit with necessary materials and labour including providing cement concrete foundation bed cont door type etc., complete PRED ISSUE RATE
18	Supplying of TPST with rewireable porcelain channels in SM encloser 15/32 amps P-521, Group-Bi-1(b), BWSSB SR 2013-14.
19	Supplying and fixing 500x500x65mm polished wood board made up not less than 15mm thick plank in front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts,
20	Supplying and fixing LED Type panel board indicating lamp with required colour suitable for 220 v AC 50Hz 12/24 V DC Group 'B'. P-529, I-35(b), BWSSB SR 2013-14.
21	Supplying and drawing each **PVC insulated 650/100 V** grade wire in the conduct (Open or Concealed system of wiring) 7/20 or 7/36 copper wire. P-380, I-20, ii(d), BWSSB SR2012-13.
22	Supplying, fixing and wiring **heavy duty low voltage** capacitors confirming to I 2834, 3 PHASE 400/440 Volts grade for power factor improvement of rotating machinery capacitor in KVAR - rating Nos 2 KVAR Capacity P-402, I-34(a), BWSSB SR 2012-13.
23	Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required P-526, I-13 (P, a), BWSSB SR 2013-14.
24	Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia P-552, I-7, BWSSB SR 2013-14
25	Supplying and fixing class A (medium duty) GI pipe wall thickness not less than 3.25mm on pole. P-555, I-15, BWSSB SR 2013-14.
26	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 Mtr long buried in a pit,/ the pit should be filled with equal proporation of salt and charocal 150mm alround the pipe to complete depth the connections from the pipe to the conduits etc., is to be established through GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12 mmdia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm
27	Supply 1.1 KV class UG cable from nearest BESCOM pole to panel board including earth work and road restoratio 4 core 16 sqmm. P-426, I-10(d), BWSSB SR 2012-13.
28	Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe / stoneware pipe/ on pole as required, P-427, I-11 (a), BWSSB SR 2012-13.
29	Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete P-427, I-12 (a), BWSSB SR2012-13.
30	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmm UG cable filled with neccesary bitumen / insulating compound complete with termiinalas, clamps, bolts, nuts, washers etc., P-428, I-16(b), BWSSB SR 2012-13.
31	Supplying and fixing of porcelain fuse channel with cut-out on existing / new wooden panel using neccesary nuts, bolts and washers etc., BWSSB SR P-394 I-173
32	BESCOM Deposit charge and miscellanious.

Nos	—	—	—	5.0	10000.00	50000=00	5.0	50000=00
Mtr	—	—	—	1750.0	519.30	908775=00	1750.0	908775=00
Nos	—	—	—	150.0	150.00	22500=00	150.0	22500=00
Nos	—	—	—	5.0	475.00	2375=00	5.0	2375=00
Nos	—	—	—	5.0	1320.00	6600=00	5.0	6600=00
Nos	—	—	—	5.0	302.50	1513.0	5.0	1513=00
Nos	—	—	—	15.0	385.00	5775.0	15.0	5775=00
Nos	—	—	—	50.0	27.50	1375=00	50.0	1375=00
Nos	—	—	—	5.0	385.00	1925=00	5.0	1925=00
Nos	—	—	—	5.0	880.00	4400=00	5.0	4400=00
Nos	—	—	—	5.0	1650.00	8250=00	5.0	8250=00
Nos	—	—	—	50.0	286.00	14300=00	50.0	14300=00
Nos	—	—	—	5.0	1650.00	8250=00	5.0	8250=00
Mtr	—	—	—	150.0	165.00	24750=00	150.0	24750=00
Mtr	—	—	—	150.0	5.50	825=00	150.0	825=00
Mtr	—	—	—	75.00	44.00	3300=00	75.0	3300=00
Nos	—	—	—	5.0	264.00	1320=00	5.0	1320=00
	—	—	—	30.0	440.00	13200=00	30.0	13200=00
Nos	—	—	—	5	9990=00 15000.00	49950.0	5.0	49950=00

33	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Asphalt surface road. (Pg. No-272, I.No-37.38) PWD SR 201.-15
34	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. Noll KBS 2.1.C/2.9.4/2.18/2.19 (Pg. No-05, I.No-2.4) PWD SR 2014-15
35	Providing and installing at site of work P.V.C pipees including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not leass than 15 cms with gravel or selected earth available from the excavation etc., complete PVC pipes of 6kg/Sqm 75mm Dia.(Page NO-102, ITEM no-13.15 (b), of PRED SR 2012-13).
36	Supplying and fixing 50 mm GI pipes 'B' class heavy duty (As PER bwssb Store Issued Rate) **Note:-** GI Pipe using for Road crossing places.
37	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. Including cost of all labour complete as per specification. (Pg. No-6, I.No-2.11 PWD SR 2016-17).)
38	Transportation of pumping machineries PRE SR 2012-13 PG 51/10.3.19
39	Erection of Pumping machineries PRE SR 2012-13 PG 51/10.3.20
40	Providing &Supplying water through water tankers of Capacity 6000 ltrs on hire basis every day from 6.00AM to 6.00P.M as per the Direction of Engineer-in-Charge of the work the hire charges will be inclusive of diesel, oil, spare parts and other consumables inclusive of driver and and also Vehicle tax,insurance and other taxes.The Vehicle should have necessary permits/licences etc.,
	Totnl.
	Totnl

CERTIFICATE

1 This is to certify that the contractor has completed the work satisfactorily.

2 The contractor has cleared the debries from the work sport

3 The contractor has used his own vehicles for the coveying the debries.

4 There are no departmental issues for the above work.

os	—	—	—	69.75	311.64	21737=00	69.75	21737=00
um	—	—	—	301.5	299.98	90444.0	301.5	90444=00
um	—	—	—	775.0	157.00	121675.0	775.0	121675=00
tr	—	—	—	50.0	325.00	16250=00	50.0	16250=00
m	—	—	—	301.5	80.56	24289.0	301.5	24289.0
S	—	—	—	5.0	900.00	4500=00	5.0	4500=00
S	—	—	—	5.0	900.00	4500=00	5.0	4500=00
ads	—	—	—	336.0	515.00	173040=00	336.0	173040=00
—	—	—	—	—	—	Rs 3613394=00	—	3613394=00
						325205=00		325205=00
						Rs 3938599=00	Rs	3938599=00

Sk dayan 31/8/17

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು